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## **NTP BSC Nanotechnology Working Group (NWG)**

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**First Working Group Meeting  
June 24, 2005**

**Dr. Steve Roberts (NWG Chair)**



## **Nanotechnology Working Group - Charge**

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- ♦ **Purpose-**
  - Provide a forum for public and stakeholder participation
  - Consider the research proposed and carried out under the NTP nanotechnology safety initiative and programs of other federal agencies
  - Provide advice and comment to the Board of Scientific Counselors
- ♦ **Function-**
  - Advise on scientific content, merit and quality of NTP research programs
  - Discuss public health concerns, needs of regulatory agencies, issues of product development



## Nanotechnology Working Group - Structure

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- ♦ **Up to 12 members representing**
  - Non-profit public health and environmental organizations
  - Industry
  - Academia
- ♦ **Encourage participation from federal agencies representing**
  - NTP Executive Committee
  - Nanomaterials Environmental and Health Implications (NEHI) subgroup of Nanoscale Science, Engineering, and Technology (NSET) Subcommittee



## Nanotechnology Working Group - June 24, 2005 Meeting

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- ♦ **Presentations and Discussion Points-**
  - **National Nanotechnology Initiative (NNI)**
    - funding; environment, health, and safety research areas
  - **Food and Drug Administration (FDA)**
    - tracking nanoscale particle distribution and solubility; nanotechnology devices approved by FDA
  - **National Institute for Occupational Safety and Health (NIOSH)**
    - total production cycle safety assessments
  - **National Institute of Environmental Health Sciences (NIEHS)**
    - funding; interactions with other exposures
  - **National Toxicology Program (NTP)**
    - amount of nanoscale particle required for testing; species selection; dose metric; PBPK models; in vitro and in vivo testing; identifying nanomaterials with near market applications



## **Nanotechnology Working Group – Future Topics**

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- ♦ **Nomenclature standardization and measurement**
  - National Institute of Standards and Technology (NIST)
  - NCI-Frederick Nanotechnology Characterization Laboratory
- ♦ **NTP research plans and progress**
- ♦ **Environmental and occupational health and safety standards**
- ♦ **NEHI research needs**